

## Product datasheet for TP301251M

### PSMC5 (NM\_002805) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human proteasome (prosome, macropain) 26S subunit, ATPase, 5 (PSMC5), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201251 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRRLLQAQRNELNAKVRLREELQLLQEQG  
SYVGEVVRAMDKKKVLVHVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSTYTLHKILPNKVDPLVSLMMV  
EKVPDSTYEMIGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLVLYGPPGTGKTLARAVAHHTDCT  
FIRVSGSELVQKFIGEGARMVRELFVMAREHAPSIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQL  
DGFEATKNIKVIMATNRIDILDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAEL  
MPGASGAEVKGVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDSEKNMSIKLWK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	45.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_002796</a></u>



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Locus ID: 5705

UniProt ID: [P62195](#), [A0A140VJS3](#)

RefSeq Size: 1372

Cytogenetics: 17q23.3

RefSeq ORF: 1218

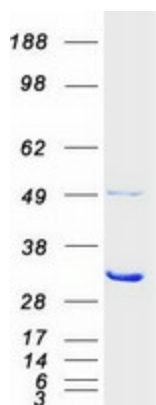
Synonyms: p45; p45/SUG; RPT6; S8; SUG-1; SUG1; TBP10; TRIP1

**Summary:** The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

**Protein Families:** Druggable Genome

**Protein Pathways:** Proteasome

### Product images:



Coomassie blue staining of purified PSMC5 protein (Cat# [TP301251]). The protein was produced from HEK293T cells transfected with PSMC5 cDNA clone (Cat# [RC201251]) using MegaTran 2.0 (Cat# [TT210002]).